

F11 to stop codes. To undo an X, copy a blank checkbox over it.

PTO/SB/01A (08-03).

Approved for use through 03/31/2006. OMB 0651-0032.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

### Title of Invention

METHODS FOR DETERMINING GENETIC RESISTANCE OF PIGS TO  
DISEASES CAUSED BY RNA VIRUSES

As the below named inventor(s), I/we declare that:

This declaration is directed to:

☐ The attached application, or

☒ U.S. Application No. 10/533,277, Int'l Application No. PCT/JP03/13767, Int'l filing date October 28, 2003.

☐ as amended on \_\_\_\_\_ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

### FULL NAME OF INVENTOR(S)

Inventor one: Tadayoshi MITSUHASHI

Citizen of: Japan

Signature: T. Mitsuhashi

Date: October 17, 2005

Inventor two: \_\_\_\_\_

Citizen of: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor three: \_\_\_\_\_

Citizen of: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor four: \_\_\_\_\_

Citizen of: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

☐ Additional inventors or a legal representative are being named on \_\_\_\_\_ additional form(s) attached hereto.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
Docket No. 690107.404USPC C:\N\Portbl\N\Manage\JOHNO\696334\_1.DOC [10-23-01]

RECEIVED PCT/PTO 28 NOV 2005

EXPRESS MAIL NO. EV530943846US

PTO/SB/96 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: **Tadayoshi MITSUHASHI**

Application No./Patent No.: **10/533,277** Int'l Filing Date: **October 28, 2003**

Entitled: **METHODS FOR DETERMINING GENETIC RESISTANCE OF PIGS TO DISEASES CAUSED BY RNA VIRUSES**

**National Institute of Agrobiological Sciences**

(Name of Assignee)

a

**corporation**

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_%

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above.  
The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title noted in B above are attached.

**[NOTE:]** A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Teruo Ishige  
Signature

October 17, 2005  
Date

**Teruo Ishige**  
Typed or printed name

**President**  
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Docket No. 690107.404USPC

C:\NPortB\NManage\JOHNO696338\_1.DOC

Rec'd PCT/PTO 28 NOV 2005

F11 to stops

EXPRESS MAIL NO. EV530943846US

<b>ELECTION AND POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM</b>	Application Number	10/533,277
	Int'l Filing Date	October 28, 2003
	First Named Inventor	Tadayoshi MITSUHASHI
	Title	METHODS FOR DETERMINING GENETIC RESISTANCE OF PIGS TO DISEASES CAUSED BY RNA VIRUSES
	Art Unit	
	Examiner Name	
	Attorney Docket Number	690107.404USPC

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners at Seed IP Law Group PLLC, Customer Number: **00500**

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above (and any continuation/divisional applications therefrom), and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City		State		ZIP	
Country					
Telephone		Email			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

☒ As assignee of record of the entire interest I/we hereby elect, under 37 CFR 3.71, to prosecute the application to the exclusion of the inventor(s). (IMPORTANT: If application is assigned, you must check this box)

**SIGNATURE OF Applicant or Assignee of Record**

Signature	<i>Teruo Ishige</i>	Date	<i>October 17, 2005</i>
Name	Teruo Ishige		
Title and Company (Assignee)	President National Institute of Agrobiological Sciences		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. C:\NrPortb\NManage\JOHN01696336\_1.DOC

**USPC - Sole to Corporation, After Filing 371 Application  
ASSIGNMENT**

WHEREAS, I, Tadayoshi MITSUHASHI (hereinafter referred to as ASSIGNOR),  
having a mailing address of ~~26-405-501, Matsushiro 4-chome, Tsukuba-shi, Ibaraki 305-0035~~ <sup>20-13, Chuou 4-chome, Utsunomiya-shi, Ibaraki 300-1234</sup> T.M.  
Japan, am the sole inventor of an invention entitled "METHODS FOR DETERMINING  
GENETIC RESISTANCE OF PIGS TO DISEASES CAUSED BY RNA VIRUSES," as  
described and claimed in the specification for which an application for United States letters  
patent was filed and assigned Application No. 10/533,277. This application is a national stage  
application filed under 35 U.S.C. 371 of International Application No. PCT/JP03/13767,  
accorded an International Filing Date of October 28, 2003;

WHEREAS, National Institute of Agrobiological Sciences (hereinafter referred to  
as ASSIGNEE), having a usual place of business at 1-2, Kannondai 2-chome, Tsukuba-shi,  
Ibaraki 305-8602 Japan, is desirous of acquiring the entire right, title and interest in and to the  
invention and in and to any letters patent that may be granted therefor in the United States;

NOW, THEREFORE, in exchange for good and valuable consideration, the  
receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto  
said ASSIGNEE, the entire right, title and interest in and to said invention, said application and  
any and all letters patent which may be granted for said invention in the United States of  
America and its territorial possessions, and in any and all divisions, reissues and continuations  
thereof, said invention, application and all letters patent on said invention to be held and enjoyed  
by ASSIGNEE and its successors and assigns for their use and benefit and of its successors and  
assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had  
this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests  
the Commissioner of Patents and Trademarks to issue all letters patent on said invention to  
ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the  
making and prosecution of applications for United States letters patent on said invention, for  
litigation regarding said letters patent, or for the purpose of protecting title to said invention or  
letters patent therefor.

October 17, 2005  
Date

T. Mitsuhashi  
Tadayoshi MITSUHASHI

I certify that I know or have satisfactory evidence that Tadayoshi MITSUHASHI signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date October 17, 2005  
(Type or Print)

Signed at Ibaraki, Japan

Isashi Suzuki  
(Type or Print Name of Witness)

Isashi Suzuki  
(Signature of Witness)